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=> s dehydration and (methanol or methyl alcohol) and alumina and dimethyl ether  
and (vapor or gas) and (pore volume or specific surface area or pore radius)

13 FILES SEARCHED...

24 FILES SEARCHED...

35 FILES SEARCHED...

43 FILES SEARCHED...

51 FILES SEARCHED...

58 FILES SEARCHED...

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64 FILES SEARCHED...

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L1 155 DEHYDRATION AND (METHANOL OR METHYL ALCOHOL) AND ALUMINA AND  
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L2 140 DUP REM L1 (15 DUPLICATES REMOVED)

=> d 1-140 ti

L2 ANSWER 1 OF 140 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

TI Etherification process and activated **alumina** catalyst for  
producing **dimethyl ether** from **methanol**

L2 ANSWER 2 OF 140 USPATFULL on STN DUPLICATE 2

TI Separation of propylene and dimethylether from hydrocarbon mixtures

L2 ANSWER 3 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Process for producing **dimethyl ether**.

L2 ANSWER 4 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN COMPOSITE PARTICLE FOR DIELECTRICS, ULTRAMICROPARTICULATE COMPOSITE  
RESIN PARTICLE, COMPOSITION FOR FORMING DIELECTRICS AND USE THEREOF.

L2 ANSWER 5 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN PROCESS FOR PRODUCING POLYOLEFIN RESIN COMPOSITION AND POLYPROPYLENE  
COMPOSITION.

L2 ANSWER 6 OF 140 PCTFULL COPYRIGHT 2004 Univentio on STN

TIEN SEPARATION OF PROPYLENE AND DIMETHYLETHER FROM HYDROCARBON MIXTURES

TIFR SEPARATION DE PROPYLENE ET DE DIMETHYLETHER A PARTIR DE MELANGE  
D'HYDROCARBURES

L2 ANSWER 7 OF 140 USPATFULL on STN

TI Method for producing diol derivatives

L2 ANSWER 8 OF 140 USPATFULL on STN

TI Polar group-containing olefin copolymer, process for preparing the same,  
thermoplastic resin composition containing the copolymer, and uses  
thereof

L2 ANSWER 9 OF 140 USPATFULL on STN

TI Process for producing polyolefin resin composition and polypropylene  
composition

L2 ANSWER 10 OF 140 USPATFULL on STN

TI Process of producing liquid hydrocarbon oil or **dimethyl  
ether** from lower hydrocarbon **gas** containing carbon  
dioxide

L2 ANSWER 11 OF 140 USPATFULL on STN

TI Positive photosensitive resin composition, process for its preparation,  
and semiconductor devices

L2 ANSWER 12 OF 140 USPATFULL on STN

DUPLICATE 3

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TI Process of producing liquid hydrocarbon oil or **dimethyl ether** from lower hydrocarbon **gas** containing carbon dioxide

L2 ANSWER 13 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN POSITIVE PHOTOSENSITIVE RESIN COMPOSITION, PROCESS FOR ITS PREPARATION, AND SEMICONDUCTOR DEVICES.

L2 ANSWER 14 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Lithographic printing plate precursor.

L2 ANSWER 15 OF 140 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN STABILISATION OF ACID CATALYSTS  
TIFR STABILISATION DE CATALYSEURS ACIDES

L2 ANSWER 16 OF 140 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN METHOD OF SYNTHESISING CRYSTALLINE MICROPOROUS METALLOALUMINOPHOSPHATE FROM A SOLID BODY  
TIFR PROCEDE DE SYNTHESE DE METALLOALUMINOPHOSPHATE MICROPOREUX CRISTALLIN A PARTIR D'UN CORPS SOLIDE

L2 ANSWER 17 OF 140 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN CARBON MATERIAL, PRODUCTION METHOD AND USE THEREOF  
TIFR MATIERE CARBONE, PROCEDE DE PRODUCTION ET UTILISATION DE CETTE MATIERE

L2 ANSWER 18 OF 140 USPATFULL on STN  
TI Rubber compositions

L2 ANSWER 19 OF 140 USPATFULL on STN  
TI Composite particle for dielectrics, ultramicroparticulate composite resin particle, composition for forming dielectrics and use thereof

L2 ANSWER 20 OF 140 USPATFULL on STN  
TI Stabilization of acid catalysts

L2 ANSWER 21 OF 140 USPATFULL on STN  
TI Lithographic printing plate precursor

L2 ANSWER 22 OF 140 USPATFULL on STN  
TI Ferromagnetic metal powder, producing method of the same, and magnetic recording medium

L2 ANSWER 23 OF 140 USPATFULL on STN  
TI Molecular sieve catalyst composition, its making and use in conversion processes

L2 ANSWER 24 OF 140 USPATFULL on STN  
TI Molecular sieve catalyst composition, its making and use in conversion processes

L2 ANSWER 25 OF 140 USPATFULL on STN  
TI Pregel compositions for polymer gel electrolytes, method of dehydrating pregel compositions, secondary cell, and electrical double-layer capacitor

L2 ANSWER 26 OF 140 USPATFULL on STN  
TI Moniliform silica sol, process for producing the same, and ink-jet recording medium

L2 ANSWER 27 OF 140 USPATFULL on STN  
TI Magnetic recording tape with controlled Hc and magnetic flux/unit area value and controlled Cl/Fe intensity

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L2 ANSWER 28 OF 140 USPATFULL on STN  
TI Preparation of C5-/C6-olefins

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L2 ANSWER 29 OF 140 USPAT2 on STN  
TI Process for the production of a diene in three successive stages from a tertiary alkyl ether

L2 ANSWER 30 OF 140 USPATFULL on STN DUPLICATE 4  
TI Magnetic recording medium

L2 ANSWER 31 OF 140 USPATFULL on STN DUPLICATE 5  
TI Stable highly active supported copper based catalysts

L2 ANSWER 32 OF 140 USPATFULL on STN DUPLICATE 6  
TI Magnetic recording medium

L2 ANSWER 33 OF 140 USPATFULL on STN DUPLICATE 7  
TI Flexible preparation of propene and hexene

L2 ANSWER 34 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Pregel compositions for polymer gel electrolytes, method of dehydrating pregel compositions, secondary cell, and electrical double-layer capacitor.

L2 ANSWER 35 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Lithographic printing plate precursor.

L2 ANSWER 36 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Polar group-containing olefin copolymer, process for preparing the same, thermoplastic resin composition containing the copolymer, and uses thereof.

L2 ANSWER 37 OF 140 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN METHOD FOR PRODUCING COMPOSITE MATERIAL FOR ELECTRODE COMPRISING QUINOXALINE BASED POLYMER, SUCH MATERIAL, ELECTRODE AND BATTERY USING THE SAME  
TIFR PROCEDE DE PRODUCTION DE MATERIAU COMPOSITE POUR ELECTRODE COMPRENANT UN POLYMERE A BASE DE QUINOXALINE, MATERIAU, ELECTRODE ET BATTERIE CORRESPONDANTS

L2 ANSWER 38 OF 140 USPATFULL on STN  
TI Lithographic printing plate precursor

L2 ANSWER 39 OF 140 USPATFULL on STN  
TI Polar group-containing olefin copolymer, process for preparing the same, thermoplastic resin composition containing the copolymer, and uses thereof

L2 ANSWER 40 OF 140 USPATFULL on STN  
TI Cleaning medium for magnetic recording apparatus

L2 ANSWER 41 OF 140 USPATFULL on STN  
TI Magnetic recording medium

L2 ANSWER 42 OF 140 USPATFULL on STN  
TI Magnetic recording medium

L2 ANSWER 43 OF 140 USPATFULL on STN  
TI Alkoxysilane/organic polymer composition for thin insulating film production and use thereof



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L2	ANSWER 44 OF 140	USPATFULL on STN	
TI	Magnetic recording medium		
L2	ANSWER 45 OF 140	USPATFULL on STN	DUPLICATE 8
TI	Magnetic recording medium		
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L2	ANSWER 46 OF 140	USPATFULL on STN	DUPLICATE 9
TI	Magnetic recording media		
L2	ANSWER 47 OF 140	USPATFULL on STN	DUPLICATE 10
TI	Ferromagnetic metal powder and magnetic recording medium using the same		
L2	ANSWER 48 OF 140	EUROPATFULL	COPYRIGHT 2004 WILA on STN
TIEN	RUBBER COMPOSITION.		
L2	ANSWER 49 OF 140	EUROPATFULL	COPYRIGHT 2004 WILA on STN
TIEN	Magnetic recording medium.		
L2	ANSWER 50 OF 140	EUROPATFULL	COPYRIGHT 2004 WILA on STN
TIEN	MONILIFORM SILICA SOL, PROCESS FOR PRODUCING THE SAME, AND INK-JET RECORDING MEDIUM.		
L2	ANSWER 51 OF 140	EUROPATFULL	COPYRIGHT 2004 WILA on STN
TIEN	Ferromagnetic metal powder and magnetic recording medium using the same.		
L2	ANSWER 52 OF 140	PCTFULL	COPYRIGHT 2004 Univentio on STN
TIEN	STABLE HIGHLY ACTIVE SUPPORTED COPPER BASED CATALYSTS		
TIFR	CATALYSEURS STABLES A BASE DE CUIVRE, SUPPORT HAUTEMENT ACTIF		
L2	ANSWER 53 OF 140	USPATFULL on STN	
TI	RADIANT RAY-SENSITIVE LITHOGRAPHIC PRINTING PLATE PRECURSOR		
L2	ANSWER 54 OF 140	USPATFULL on STN	
TI	Stable highly active supported copper based catalysts		
L2	ANSWER 55 OF 140	USPATFULL on STN	
TI	Magnetic recording medium		
L2	ANSWER 56 OF 140	EUROPATFULL	COPYRIGHT 2004 WILA on STN
TIEN	ALKOXY-SILANE/ORGANIC POLYMER COMPOSITION FOR THIN INSULATING FILM PRODUCTION AND USE THEREOF.		
L2	ANSWER 57 OF 140	EUROPATFULL	COPYRIGHT 2004 WILA on STN
TIEN	Magnetic recording medium.		
TIEN	Magnetic recording medium.		
L2	ANSWER 58 OF 140	USPATFULL on STN	
TI	Cleaning medium for magnetic recording devices		
L2	ANSWER 59 OF 140	USPATFULL on STN	
TI	Cleaning medium for magnetic recording devices		
L2	ANSWER 60 OF 140	EUROPATFULL	COPYRIGHT 2004 WILA on STN
TIEN	Magnetic recording medium.		
L2	ANSWER 61 OF 140	EUROPATFULL	COPYRIGHT 2004 WILA on STN
TIEN	Radiant ray-sensitive lithographic printing plate precursor.		
L2	ANSWER 62 OF 140	EUROPATFULL	COPYRIGHT 2004 WILA on STN
TIEN	Magnetic recording medium.		
TIEN	Magnetic recording medium.		

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L2 ANSWER 63 OF 140 USPATFULL on STN  
TI Magnetic recording medium

L2 ANSWER 64 OF 140 USPATFULL on STN  
TI Magnetic recording medium

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L2 ANSWER 65 OF 140 USPATFULL on STN  
TI Magnetic recording medium

L2 ANSWER 66 OF 140 USPATFULL on STN  
TI Process for the separation of phenyluracil compounds

L2 ANSWER 67 OF 140 USPATFULL on STN  
TI Magnetic recording medium containing magnetic powder and a polyurethane binder having a specified radius of gyration

L2 ANSWER 68 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Use of aluminum phosphate as the **dehydration** catalyst in single step **dimethyl ether** process.

L2 ANSWER 69 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Process for preparation of tertiary olefins.  
TIEN Process for preparation of tertiary olefins.

L2 ANSWER 70 OF 140 USPATFULL on STN  
TI Cleaning medium for magnetic recording devices, in which the cleaning medium includes a substrate, a lower coating layer containing non-magnetic inorganic particles, and a cleaning area

L2 ANSWER 71 OF 140 USPATFULL on STN  
TI Nitrile removal in an etherification process

L2 ANSWER 72 OF 140 USPATFULL on STN  
TI Magnetic recording medium

L2 ANSWER 73 OF 140 USPATFULL on STN  
TI Use of aluminum phosphate as the **dehydration** catalyst in single step **dimethyl ether** process

L2 ANSWER 74 OF 140 USPATFULL on STN  
TI Catalytic decomposition of formate impurities in tertiary butyl alcohol and methyl tertiary butyl ether streams

L2 ANSWER 75 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN FINE COATED PARTICLE, PROCESS FOR PRODUCING THE SAME, AND USE THEREOF.

L2 ANSWER 76 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN COMPOUND-DEPOSITED NEEDLE-SHAPED FINE PARTICLES, METHOD OF MANUFACTURING THE SAME, AND USE OF THE SAME.  
TIEN COMPOUND-DEPOSITED NEEDLE-SHAPED FINE PARTICLES, METHOD OF MANUFACTURING THE SAME, AND USE OF THE SAME.

L2 ANSWER 77 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN MINUTE ACICULAR PARTICLE CONTAINING METALLIC IRON, IRON CARBIDE AND CARBON, PRODUCTION THEREOF, AND MAGNETIC COATING COMPOSITION AND MAGNETIC RECORDING MEDIUM CONTAINING THE SAME.  
TIEN MINUTE ACICULAR PARTICLE CONTAINING METALLIC IRON, IRON CARBIDE AND CARBON, PRODUCTION THEREOF, AND MAGNETIC COATING COMPOSITION AND MAGNETIC RECORDING MEDIUM CONTAINING THE SAME.

L2 ANSWER 78 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Magnetic recording medium.

TIEN Magnetic recording medium.

L2 ANSWER 79 OF 140 USPATFULL on STN

TI Acicular metal iron fine particles, process for preparing same, magnetic coating composition and magnetic recording medium containing same

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L2 ANSWER 80 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Magnetic recording medium.

L2 ANSWER 81 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Process for preparing magnetic coating composition.

TIEN Process for preparing magnetic coating composition.

L2 ANSWER 82 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN **Methanol** synthesis catalyst.

TIEN **Methanol** synthesis catalyst.

L2 ANSWER 83 OF 140 USPATFULL on STN

TI Coated acicular fine particulate materials, processes for preparing same and use thereof

L2 ANSWER 84 OF 140 USPATFULL on STN

TI Magnetic recording medium

L2 ANSWER 85 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Process for preparing polyolefins.

TIEN Process for preparing polyolefins.

L2 ANSWER 86 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Process for preparing polyolefins.

TIEN Process for preparing polyolefins.

L2 ANSWER 87 OF 140 USPATFULL on STN

TI Acicular fine particles containing metallic iron, iron carbide and carbon, process thereof, and magnetic coating composition and magnetic recording medium containing the same

L2 ANSWER 88 OF 140 USPATFULL on STN

TI Magnetic recording medium and process for preparing the same

L2 ANSWER 89 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Acicular metal iron fine particles, process for preparing same, magnetic coating composition and magnetic recording medium containing same.

TIEN Acicular metal iron fine particles, process for preparing same, magnetic coating composition and magnetic recording medium containing same.

L2 ANSWER 90 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Method for utilization of carbon tetrachloride in the preparation of methyl chloride.

TIEN Method for the preparation of methyl chloride.

L2 ANSWER 91 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Process for preparing polyolefins.

TIEN Process for preparing polyolefins.

L2 ANSWER 92 OF 140 USPATFULL on STN

TI Process for preparing polyolefins

L2 ANSWER 93 OF 140 USPATFULL on STN

TI Catalyzed **vapor** phase process for making alcohols

L2 ANSWER 94 OF 140 USPATFULL on STN

10/642,952

TI Nitrile removal in an etherification process

L2 ANSWER 95 OF 140 USPATFULL on STN

TI Method for producing polyolefin

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L2 ANSWER 96 OF 140 USPATFULL on STN

TI Process for preparing magnetic coating composition

L2 ANSWER 97 OF 140 USPATFULL on STN

TI Catalyst for the synthesis of **methanol**

L2 ANSWER 98 OF 140 USPATFULL on STN

TI Process for the preparation of tertiary olefins

L2 ANSWER 99 OF 140 USPATFULL on STN

TI Method for preparation of methyl chloride

L2 ANSWER 100 OF 140 USPATFULL on STN

TI Liquid phase process for **dimethyl ether** synthesis

L2 ANSWER 101 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Liquid phase process for **dimethyl ether** synthesis.

L2 ANSWER 102 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Oligomerization processes and catalysts.

TIEN Oligomerization processes and catalysts.

L2 ANSWER 103 OF 140 USPATFULL on STN

TI Catalyzed **vapor** phased process for making alcohols

L2 ANSWER 104 OF 140 USPATFULL on STN

TI Acicular iron carbide particulate material and process for producing same

L2 ANSWER 105 OF 140 USPATFULL on STN

TI Catalyzed **vapor** phase process for making alcohols

L2 ANSWER 106 OF 140 USPATFULL on STN

TI Catalyst for supported molten salt catalytic dehydrogenation of **methanol**

L2 ANSWER 107 OF 140 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 11

TI Preparation of **dimethyl ether** from **methanol**

L2 ANSWER 108 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Method for producing polyolefins.

L2 ANSWER 109 OF 140 PROMT COPYRIGHT 2004 Gale Group on STN

TI Alcoa touts adsorbent to clean isomerization, alky, MTBE feeds. (methyl tertiary butyl ether; Aluminum Company of America)

L2 ANSWER 110 OF 140 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Preparation of di methyl ether - comprises gaseous phase **dehydration** of **methanol** over gp.-IIIA metal oxide(s)-**alumina** catalyst.

L2 ANSWER 111 OF 140 USPATFULL on STN

TI Zeolite modifications

L2 ANSWER 112 OF 140 USPATFULL on STN

TI Oligomerization processes and catalysts

10/642,952

L2 ANSWER 113 OF 140 USPATFULL on STN  
TI Acicular process for producing particulate material

---

L2 ANSWER 114 OF 140 USPATFULL on STN  
TI Catalyst for oligomerization process

L2 ANSWER 115 OF 140 USPATFULL on STN  
TI Alpha, beta-ethylenically unsaturated acids and derivatives thereof  
using a multicomponent acidic catalyst composition containing zirconium

L2 ANSWER 116 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Process for the removal of **dimethyl ether** contained  
as an impurity in liquid olefinic C3-C5 feeds.

L2 ANSWER 117 OF 140 USPATFULL on STN  
TI Composite hydrophilic membrane and method for manufacture thereof

L2 ANSWER 118 OF 140 USPATFULL on STN  
TI Silica-based synthetic material containing titanium in the crystal  
lattice and process for its preparation

L2 ANSWER 119 OF 140 USPATFULL on STN  
TI Zeolite modification and its use in conversion of alcohols and ethers to  
hydrocarbons

L2 ANSWER 120 OF 140 USPATFULL on STN  
TI Silica-based synthetic materials containing boron in the crystal lattice  
and processes for their preparation

L2 ANSWER 121 OF 140 USPATFULL on STN  
TI Catalytic preparation of **dimethyl ether**

L2 ANSWER 122 OF 140 USPATFULL on STN  
TI Preparation of **dimethyl ether** by catalytic  
**dehydration** of **methanol**

L2 ANSWER 123 OF 140 USPATFULL on STN  
TI Magnetic recording medium and a process of fabricating such magnetic  
recording medium

L2 ANSWER 124 OF 140 USPATFULL on STN  
TI Process for synthesizing  $\alpha,\beta$ -ethylenically unsaturated  
products using a multicomponent acidic catalyst composition

L2 ANSWER 125 OF 140 USPATFULL on STN  
TI Process for the production of tertiary olefin

L2 ANSWER 126 OF 140 USPATFULL on STN  
TI Process for preparation of tertiary olefins

L2 ANSWER 127 OF 140 USPATFULL on STN  
TI Process for synthesizing a multicomponent acidic catalyst composition  
containing zirconium by an organic solution method

L2 ANSWER 128 OF 140 USPATFULL on STN  
TI Process for synthesizing a multicomponent acidic catalyst composition by  
an organic solution method

L2 ANSWER 129 OF 140 USPATFULL on STN  
TI Process for carrying out catalytic conversions

10/642,952

L2 ANSWER 130 OF 140 USPATFULL on STN  
TI Process for producing an olefin by decomposition of the corresponding ether

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L2 ANSWER 131 OF 140 USPATFULL on STN  
TI Catalyst for methylamines production

L2 ANSWER 132 OF 140 USPATFULL on STN  
TI Catalysts for **methanol** synthesis

L2 ANSWER 133 OF 140 USPATFULL on STN  
TI Catalysts for **methanol** synthesis and method for their production

L2 ANSWER 134 OF 140 USPATFULL on STN  
TI Process for the production of tertiary olefin

L2 ANSWER 135 OF 140 USPATFULL on STN  
TI Process for preparing acetonitrile

L2 ANSWER 136 OF 140 USPATFULL on STN  
TI Conversion of **methanol** and **dimethyl ether**

L2 ANSWER 137 OF 140 USPATFULL on STN  
TI Conversion of **methanol** and **dimethyl ether** to C.sub.2 -C.sub.6 monoolefins using a partially hydrated zirconium sulfate catalyst

L2 ANSWER 138 OF 140 USPATFULL on STN  
TI Preparation of methacrylates

L2 ANSWER 139 OF 140 USPATFULL on STN  
TI CATALYSIS

L2 ANSWER 140 OF 140 RDISCLOSURE COPYRIGHT 2004 KENNETH MASON PUBL. on STN  
TI Use of solids dispersants to enhance catalyst loading in slurry phase reactors

=> d 1,3,107,110,121,122,129,136,139 bib ab

L2 ANSWER 1 OF 140 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1  
AN 2004:142853 CAPLUS  
DN 140:201445  
TI Etherification process and activated **alumina** catalyst for producing **dimethyl ether** from **methanol**  
IN Shoji, Kazuo; Terai, Satoshi  
PA Japan  
SO U.S. Pat. Appl. Publ., 6 pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004034255	A1	20040219	US 2003-642952	20030818
	JP 2004099489	A2	20040402	JP 2002-261828	20020906
	EP 1396483	A1	20040310	EP 2003-292023	20030812
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRAI	JP 2002-261828	A	20020906		
OS	CASREACT 140:201445				

10/642,952

AB A process for producing di-Me ether by the etherificative **dehydration** of **methanol** in the **vapor** phase in the presence of an activated **alumina** catalyst having an average **pore radius** of 2.5-8.0 nm and having a sodium oxide content of  $\leq 0.07\%$  is described. This invention provides a process for producing DME with an improved conversion ratio using a highly active DME-production catalyst.

L2 ANSWER 3 OF 140 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1396483 EUROPATFULL ED 20040311 EW 200411 FS OS  
TIEN Process for producing **dimethyl ether**.  
TIDE Verfahren zur Herstellung von Dimethylaether.  
TIFR Procede de preparation d'ether dimethylique.  
IN Shoji, Kazuo, c/o Toyo Engineering Corporation, 8-1, Akanehama 2-chome, Narashino-shi, Chiba, JP;  
Terai, Satoshi, c/o Toyo Engineering Corporation, 8-1, Akanehama 2-chome, Narashino-shi, Chiba, JP  
PA Toyo Engineering Corporation, 2-5, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, JP  
PAN 305052  
AG Vercaemer, Laurence, Cabinet Plasseraud 65/67 rue de la Victoire, 75440 Paris Cedex 09, FR  
AGN 94071  
OS MEPA2004021 EP 1396483 A1 0010  
SO Wila-EPZ-2004-H11-T1a  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R BG; R CH; R CY; R CZ; R DE; R DK; R EE; R ES; R FI; R FR; R GB; R GR; R HU; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R RO; R SE; R SI; R SK; R TR; R AL; R LT; R LV; R MK  
PIT EPA1 EUROPAEISCHE PATENTANMELDUNG  
PI EP 1396483 A1 20040310  
OD 20040310  
AI EP 2003-292023 20030812  
PRAI JP 2002-2002261828 20020906  
ABEN A process for producing **dimethyl ether**, which includes dehydrating **methanol** in **vapor** phase in the presence of an activated **alumina** catalyst having an average **pore radius** of 2.5 nm to 8.0 nm both inclusive and having a sodium oxide content of 0.07 wt% or less. This invention provides a process for producing DME with an improved conversion ratio using a highly active DME-production catalyst.

L2 ANSWER 107 OF 140 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 11

AN 1991:448853 CAPLUS  
DN 115:48853  
TI Preparation of **dimethyl ether** from **methanol**  
IN Inomata, Masasane; Tokuno, Shinji; Myama, Kanemitsu; Kageyama, Hiroharu; Karasawa, Minahito  
PA Mitsui Toatsu Chemicals, Inc., Japan  
SO Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03056433	A2	19910312	JP 1989-188836	19890724

10/642,952

JP 2644336 B2 19970825  
PRAI JP 1989-188836 19890724  
OS CASREACT 115:48853

AB Me2O was prepared by **dehydration** of MeOH in the presence of Al2O3 with surface area: 210-300 m2/g, volume of pore whose radius is <300 Å: 0.60-0.90 mL/g, and average **pore radius**: 50-100 Å.  
MeOH **gas** was passed over Al2O3 (surface area: 260 m2/g, volume of pore whose **pore radius** is <300 Å: 0.7 mL/g, average **pore radius**: 54 Å) at 260° to give Me2O with >99% selectivity at 82.6% conversion after 1 day and >99% and 74.2%, resp., after 180 days, vs. >99% and 78.1% after 1 day and >99% and 68.9% after 157 days for a control using Al2O3 (surface area: 175 m2/g, volume of pore whose **pore radius** is <300 Å: 0.50 mL/g, average **pore radius**: 57 Å).

L2 ANSWER 110 OF 140 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 1990-136457 [18] WPIDS  
DNC C1990-060096

TI Preparation of di methyl ether - comprises gaseous phase **dehydration** of **methanol** over gp.-IIIA metal oxide(s)-**alumina** catalyst.

DC E17

PA (MITK) MITSUI TOATSU CHEM INC

CYC 1

PI JP 02085224 A 19900326 (199018)\*

ADT JP 02085224 A JP 1988-274425 19881101

PRAI JP 1988-143676 19880613; JP 1988-274425 19881101

AB JP 02085224 A UPAB: 19930928

Preparation of **dimethyl ether** (I) comprises vapour phase **dehydration** of **methanol** (II) over **alumina** catalyst (III) containing at least one oxide(s) of Gp. IIIA metal(s). High purity gamma-**alumina**, its **specific surface area** 100-700 sq.m/g, is used to prepare catalyst. One or more salt(s) of Gp.IIIA metal(s) is supported on **alumina** by usual manner to become content of Gp.IIIA metal oxide(s) in catalyst to 0.005-80 weight% (pref. 0.5-20 weight%), then Gp.IIIA metal salt(s)/**alumina** is roasted at 400-700 deg.C to prepare catalyst.

USE/ADVANTAGE - (I) is used as aerosol **gas** instead of freon **gas**. Some modified **alumina** catalysts are known already, but those are insufficient in terms of life-span, activity, preparation etc. This catalyst is prepared from available materials, and shows high activity for a long time. (I) is prepared in high yield quite selectively by using the catalyst.

0/0

L2 ANSWER 121 OF 140 USPATFULL on STN

AN 86:45275 USPATFULL

TI Catalytic preparation of **dimethyl ether**

IN Brake, Loren D., Wilmington, DE, United States

PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)

PI US 4605788 19860812

AI US 1985-768936 19850826 (6)

RLI Continuation of Ser. No. US 1985-702842, filed on 19 Feb 1985, now abandoned which is a continuation of Ser. No. US 1984-573598, filed on 26 Jan 1984, now abandoned which is a continuation of Ser. No. US 1982-394120, filed on 1 Jul 1982, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Mars, Howard T.

CLMN Number of Claims: 3

ECL Exemplary Claim: 1



10/642,952

DRWN No Drawings

LN.CNT 103

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In the preparation of **dimethyl ether** by the catalytic **dehydration of methanol**, reaction rate is enhanced and catalyst coking and byproduct formation are significantly reduced when an aluminosilicate containing a high level of **alumina** is used as the catalyst.

L2 ANSWER 122 OF 140 USPATFULL on STN

AN 86:35783 USPATFULL

TI Preparation of **dimethyl ether** by catalytic **dehydration of methanol**

IN Brake, Loren D., Wilmington, DE, United States

PA E. I. DuPont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)

PI US 4595785 19860617

AI US 1985-707606 19850304 (6)

RLI Continuation-in-part of Ser. No. US 1983-505356, filed on 16 Jun 1983, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Mars, Howard T.

CLMN Number of Claims: 3

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 117

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In the preparation of **dimethyl ether** by the catalytic **dehydration of methanol**, reaction rate is enhanced and catalyst coking and byproduct formation are significantly reduced when an aluminotitanate containing 0.1-20% of titania and 80-99.9% of **alumina** is used as the catalyst.

L2 ANSWER 129 OF 140 USPATFULL on STN

AN 83:39878 USPATFULL

TI Process for carrying out catalytic conversions

IN Post, Martin F. M., Amsterdam, Netherlands

Sie, Swan T., Amsterdam, Netherlands

PA Shell Oil Company, Houston, TX, United States (U.S. corporation)

PI US 4403044 19830906

AI US 1981-236383 19810220 (6)

PRAI NL 1980-1342 19800306

DT Utility

FS Granted

EXNAM Primary Examiner: Gantz, Delbert E.

LREP Duncan, John M., Reper, Ronald R.

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 632

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for the manufacture and/or conversion of hydrocarbons comprises contacting as feed any of: a gaseous mixture of carbon monoxide and hydrogen, acyclic organic compounds, hydrocarbon compounds, and mixtures thereof, under conversion conditions with a catalyst comprising silicalite.

L2 ANSWER 136 OF 140 USPATFULL on STN

AN 78:7385 USPATFULL

TI Conversion of **methanol** and **dimethyl ether**

IN Hargis, Duane C., Southfield, MI, United States

10/642,952

Kehoe, Lawrence J., Huntington Woods, MI, United States  
PA Ethyl Corporation, Richmond, VA, United States (U.S. corporation)  
PI US 4072733 19780207  
AI US 1976-672847 19760402 (5)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Gantz, Delbert E.  
LREP Johnson, Donald L., Linn, Robert A., Montgomery, Willard G.  
CLMN Number of Claims: 6  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 216  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Catalytic process for converting **methanol** and **dimethyl ether** to higher hydrocarbons comprising contacting the **methanol** and/or **dimethyl ether** with an **alumina**, silica, or zirconia-supported aluminum sulfate catalyst, at an elevated temperature.  
  
L2 ANSWER 139 OF 140 USPATFULL on STN  
AN 74:59427 USPATFULL  
TI CATALYSIS  
IN Rony, Peter R., St. Louis, MO, United States  
Roth, James F., Creve Coeur, MO, United States  
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)  
PI US 3855307 19741217  
AI US 1968-703382 19680206 (4)  
RLI Continuation-in-part of Ser. No. US 1967-617338, filed on 20 Feb 1967, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Zitver, Leon; Assistant Examiner: Liles, R. H.  
CLMN Number of Claims: 2  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 1025  
AB This invention relates to multiphase catalysts, the preparation of the said catalysts, and catalytic processes employing such catalysts. The multiphase catalysts are comprised of a porous solid carrier upon which a liquid-phase catalyst is disposed. The liquid-phase catalyst includes liquid compounds which have catalytic activity, and also dissolved and dispersed solutes in a solvent. The multiphase catalysts are prepared by absorbing the liquid phase on the porous solid carrier, and may also have the liquid phase dissolved in a low boiling solvent which is later removed. The latter procedure provides intimate dispersion. The catalytic processes employing the multiphase catalysts include hydroformylation, isomerization, oxidation, carbonyl conversion and carbonylation reactions.

=> SET NOTICE DISPLAY 1

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

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=> FILE CAPLUS,WPINDEX

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FULL ESTIMATED COST	247.02	247.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.47	-1.47

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FILE COVERS 1907 - 16 Jul 2004 VOL 141 ISS 4  
FILE LAST UPDATED: 15 Jul 2004 (20040715/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S JP 03056433/PN,APPS

	1 JP 03056433/PN
	(JP03056433/PN)
	0 JP 03056433/AP
	0 JP 03056433/PRN
	0 JP 03056433/APPS
	(JP 03056433/AP,PRN)
L3	1 JP 03056433/PN,APPS

=> FILE INPADOC

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	6.19	253.42

10/642,952

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.47

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FILE LAST UPDATED: 15 JUL 2004 <20040715/UP>  
15 JUL 2004 <20040715/UPLS>  
MOST RECENT INPADOC WEEK: 200429 <200429/EW>  
FILE COVERS 1968 TO DATE.

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B. SORTED BY DATE:  
<http://www.stn-international.de/stndatabases/details/inpadoc/fkd2>

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>>> THE BASIC INDEX NOW CONTAINS SINGLE TERMS FROM THE  
TITLE (/TI) AND ABSTRACT FIELDS (/AB) AND ALLOWS  
SIMULTANEOUS LEFT AND RIGHT TRUNCATION (SLART) <<<

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(LAST UPDATED JUL 13, 2004) <<<

=> TRA L3 PN

L4 TRANSFER L3 1- PN : 2 TERMS  
L5 1 L4

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=> S L5 AND US/PC

3915070 US/PC  
L6 0 L5 AND US/PC

=> SEL PN

L6 HAS NO ANSWERS

=> S L5 AND ZA/PC

195117 ZA/PC  
L7 0 L5 AND ZA/PC

=> SEL PN

L7 HAS NO ANSWERS

=> S L5 AND EP/PC AND EN/LA

1439288 EP/PC  
2301156 EN/LA

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L8 0 L5 AND EP/PC AND EN/LA

=> SEL PN

L8 HAS NO ANSWERS

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885199 WO/PC  
2301156 EN/LA

L9 0 L5 AND WO/PC AND EN/LA

=> SEL PN

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869548 CA/PC  
2301156 EN/LA

L11 0 L5 AND CA/PC AND EN/LA

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No English language equivalents could be found for this Patent Number

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COST IN U.S. DOLLARS

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FULL ESTIMATED COST

3.32

268.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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1	223	(568/698).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 17:20
2	40142	(dimethyl near2 ether) or dme!	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 17:21
3	341164	methanol or (methyl near2 alcohol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 17:21
4	70	((568/698).CCLS.) and ((dimethyl near2 ether) or dme!) and (methanol or (methyl near2 alcohol))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 17:24
5	267273	alumina	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 17:24
6	48	((568/698).CCLS.) and ((dimethyl near2 ether) or dme!) and (methanol or (methyl near2 alcohol))) and alumina	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 18:15
7	482	alumina and (methanol or methyl near2 alcohol) and (dimethyl near2 ether or dme!)	USOCR	2004/07/16 18:16
9	281	(vapor or gas) and (alumina and (methanol or methyl near2 alcohol) and (dimethyl near2 ether or dme!))	USOCR	2004/07/16 18:18
10	3493	(pore near2 volume) or (specific near2 surface near2 area) or (pore near2 radius)	USOCR	2004/07/16 19:38
11	7	((vapor or gas) and (alumina and (methanol or methyl near2 alcohol) and (dimethyl near2 ether or dme!))) and ((pore near2 volume) or (specific near2 surface near2 area) or (pore near2 radius))	USOCR	2004/07/16 18:22
12	16666	dehydration	USOCR	2004/07/16 18:22
13	46	((vapor or gas) and (alumina and (methanol or methyl near2 alcohol) and (dimethyl near2 ether or dme!))) and dehydration	USOCR	2004/07/16 18:27
14	6	("2014408").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 18:30
15	9987	gamma near3 alumina	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 18:30
16	4146	pore near2 radius	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 18:30
17	56	(gamma near3 alumina) same (pore near2 radius)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 19:17
18	1	("49031597").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 19:36

19	64330	shoji.in. or terai.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 19:37
20	167	((dimethyl near2 ether) or dme!) and (shoji.in. or terai.in.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 19:37
21	60	alumina and (((dimethyl near2 ether) or dme!) and (shoji.in. or terai.in.))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/16 19:37
22	70843	(pore near2 volume) or (specific near2 surface near2 area) or (pore near2 radius)	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/07/16 19:38
23	8	(alumina and (((dimethyl near2 ether) or dme!) and (shoji.in. or terai.in.))) and ((pore near2 volume) or (specific near2 surface near2 area) or (pore near2 radius))	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/16 19:38